


Form PTO-1449 (Modified)	U.S. DEPT. OF COMMERCE PATENT AND TRADEMARK OFFICE	Atty. Dkt. No.: 082380-00339 Serial Number: 09/481,351
INFORMATION DISCLOSURE STATEMENT 		Applicant(s): David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr. and Michael F. Gard Title: SYSTEM AND METHOD FOR AUTOMATICALLY DRILLING AND BACKREAMING A HORIZONTAL BORE UNDERGROUND
(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 5 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

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U.S. PATENT DOCUMENTS													
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
<i>RA</i>	CB	5	7	0	4	4	3	6	01/06/98	Smith et al.	175	27	03/25/96
<i>1</i>	CC	5	7	1	1	3	8	1	01/27/98	Archambeault et al.	175	45	01/16/96
<i>1</i>	CD	5	7	1	3	4	2	2	02/03/98	Dhindsa	175	27	02/28/94
<i>1</i>	CE	5	7	2	0	3	5	4	02/24/98	Stump et al.	175	26	01/11/96
<i>1</i>	CF	5	7	4	6	2	7	8	05/05/98	Bischel et al.	175	24	03/13/96
<i>1</i>	CG	5	7	7	8	9	9	1	07/14/98	Runquist et al.	175	61	08/29/96
<i>1</i>	CH	5	8	1	2	0	6	8	09/22/98	Wisler et al.	340	855.5	12/12/95
<i>1</i>	CI	5	8	3	3	0	1	5	11/10/98	Hesse et al.	175	40	04/03/97
<i>1</i>	CJ	5	8	5	0	6	2	4	12/15/98	Gard et al.	702	92	10/18/95
<i>1</i>	CK	5	8	8	0	6	8	0	03/09/99	Wisehart et al.	340	853.4	12/06/96
<i>1</i>	CL	5	9	0	4	2	1	0	05/18/99	Stump et al.	175	45	01/17/97
<i>1</i>	CM	5	9	1	4	6	0	2	06/22/99	Mercer	324	326	05/20/98
<i>1</i>	CN	5	9	4	1	3	2	0	08/24/99	Austin et al.	175	27	06/24/97
<i>1</i>	CO	5	9	4	4	1	2	1	08/31/99	Bischel et al.	175	24	04/29/98

EXAMINER <i>Raymond W. Caldwell</i>	DATE CONSIDERED <i>11/15/01</i>
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(Use several sheets if necessary) (37 CFR 1.98 (b)) Sheet 4 of 7 Sheets		Filing Date: January 12, 2000 Group: 3672 Examiner: Not Yet Assigned

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EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
PA	BO	5	4	4	9	0	4	7	09/12/95	Schivley, Jr.	175	27	09/07/94
	BP	5	4	6	5	7	9	8	11/14/95	Edlund et al.	175	24	10/25/94
	BQ	5	4	6	9	1	5	5	11/21/95	Archambeault et al.	340	853.4	07/11/94
	BR	5	4	7	4	1	4	2	12/12/95	Bowden	175	27	04/19/93
	BS	5	5	1	3	7	1	0	05/07/96	Kuckes	175	45	11/07/94
	BT	5	5	3	8	4	2	3	07/23/96	Coss et al.	433	27	11/26/93
	BU	5	5	5	6	2	5	3	09/17/96	Rozendaal et al.	414	797.7	05/11/95
	BV	5	5	6	4	4	5	5	10/15/96	Keating et al.	137	2	01/06/95
	BW	5	5	8	5	7	2	6	12/17/96	Chau	324	326	05/26/95
	BX	5	6	0	7	2	8	0	03/04/97	Rozendaal	414	745.7	12/06/95
	BY	5	6	7	9	8	9	4	10/21/97	Kruger et al.	73	152.03	10/10/95
	BZ	5	6	8	4	4	6	6	11/04/97	Keating et al.	340	662	09/12/95
	CA	5	7	0	3	4	8	4	12/30/97	Bieberdorf et al.	324	207.22	10/04/93

EXAMINER <i>Reynold A. Kable</i>	DATE CONSIDERED 11/15/01
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EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE	
RA	BB	5	2	6	9	3	8	3	12/14/93	Forrest	175	26	01/15/92	
	BC	5	2	9	4	2	2	8	03/15/94	Willis et al.	414	22.55	08/28/91	
	BD	5	3	2	0	1	8	0	06/14/94	Ruley et al.	175	26	10/08/92	
	BE	5	3	3	2	0	4	8	07/26/94	Underwood et al.	175	26	10/23/92	
	BF	5	3	4	1	8	8	6	08/30/94	Patton	175	24	07/27/93	
	BG	5	3	4	8	1	0	6	09/20/94	Mattero	175	27	06/22/93	
	BH	5	3	5	8	0	5	8	10/25/94	Edlund et al.	175	24	09/27/93	
	BI	5	3	9	0	7	4	8	02/21/95	Goldman	175	24	11/10/93	
	BJ	5	4	1	9	4	0	5	05/30/95	Patton	175	27	02/18/93	
	BK	5	4	2	1	4	2	0	06/06/95	Malone et al.	175	61	06/07/94	
	BL	5	4	3	9	0	6	4	08/08/95	Patton	175	24	10/09/92	
	BM	5	4	4	4	3	8	2	08/22/95	Mercer	324	690	06/14/94	
	BN	5	4	4	9	0	4	6	09/12/95	Kinnan	175	24	12/23/93	

EXAMINER <i>Raymond W. Cadee</i>	DATE CONSIDERED 1/15/01
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U.S. PATENT DOCUMENTS													
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Rut	AO	4	6	8	8	9	7	0	08/25/87	Eckman	408	9	08/09/85
	AP	4	7	1	0	7	0	8	12/01/87	Rorden et al.	324	207	07/23/82
	AQ	4	7	3	0	2	5	4	03/08/88	Voden, Jr.	364	422	02/03/86
	AR	4	7	9	3	4	2	1	12/27/88	Jasinski	175	27	07/13/87
	AS	4	8	5	4	3	9	7	08/08/89	Warren et al.	175	26	09/15/88
	AT	4	8	5	6	6	0	0	08/15/89	Baker et al.	175	26	10/21/88
	AU	4	8	7	5	0	1	4	10/17/89	Roberts et al.	324	326	07/20/88
	AV	4	8	7	5	2	9	2	10/24/89	Gibson	33	304	04/08/86
	AW	4	8	8	1	0	8	3	11/14/89	Chau et al.	342	459	10/02/86
	AX	4	9	5	1	7	5	9	08/28/90	Richardson	175	85	06/05/89
	AY	4	9	9	2	7	8	7	02/12/91	Helm	340	854	09/20/88
	AZ	5	0	2	7	1	0	8	06/25/91	Gray	340	662	03/05/90
	BA	5	2	2	0	9	6	3	06/22/93	Patton	175	24	12/22/89

EXAMINER <i>Raymond W. Halsey</i>	DATE CONSIDERED 1/15/01
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U.S. PATENT DOCUMENTS

EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
<i>RA</i>	AA	3	7	1	3	5	0	0	01/30/73	Russell	175	73	04/08/70
	AB	3	9	3	8	5	9	7	02/17/76	Richmond et al.	175	24	11/29/74
	AC	3	9	3	9	9	2	6	02/24/76	Barnes et al.	175	24	11/29/74
	AD	4	0	4	2	0	4	3	08/16/77	Appleman	173	152	07/02/75
	AE	4	1	1	3	0	3	3	09/12/78	Lindblad	173	1	09/02/77
	AF	4	1	8	7	5	4	6	02/05/80	Heffernan et al.	364	565	03/15/77
	AG	4	1	9	5	6	9	9	04/01/80	Rogers et al.	175	27	06/29/78
	AH	4	2	7	5	7	9	3	06/30/81	Schivley, Jr. et al.	173	9	02/14/77
	AI	4	4	4	9	5	9	2	05/22/84	Mayer	175	52	03/23/81
	AJ	4	4	6	3	8	1	4	08/07/84	Horstmeyer et al.	175	45	11/26/82
	AK	4	5	0	1	1	9	9	02/26/85	Mashimo et al.	102	313	02/10/83
	AL	4	5	3	1	8	7	5	07/30/85	Krueger	414	22	08/17/82
	AM	4	6	0	4	7	2	4	08/05/86	Shaginian et al.	364	478	10/04/85
	AN	4	6	6	7	7	5	1	05/26/87	Geczy et al.	175	61	10/11/85

EXAMINER <i>Raymond W. Carlio</i>	DATE CONSIDERED <i>1/15/01</i>
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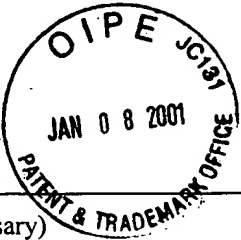
JAN 11 2001

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U.S. PATENT DOCUMENTS													TO 3600
EXAM INIT.	REF.	PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
RM	CP	5	9	6	1	2	5	2	10/05/99	Mercer et al.	405	175	10/20/97
	CQ	6	0	0	8	6	5	1	12/28/99	Mercer	324	326	08/18/98
	CR	6	0	2	1	3	7	7	02/01/00	Dubinsky et al.	702	9	10/23/96
	CS	6	0	3	5	9	5	1	03/14/00	Mercer et al.	175	45	04/16/97
	CT	6	0	4	7	7	8	3	04/11/00	Mercer et al.	175	45	10/21/99
	CU	6	0	7	9	5	0	6	06/27/00	Mercer	175	45	04/27/98
	CV	6	0	8	5	8	5	2	07/11/00	Sparks et al.	175	52	03/29/96
	CW	6	0	9	1	3	3	7	07/18/00	Arshad et al.	340	662	03/15/99
	CX	6	0	9	5	2	6	0	08/01/00	Mercer et al.	175	45	10/21/99
	CY	6	1	0	9	3	6	7	08/29/00	Bischel et al.	175	24	08/27/99
	CZ	6	1	1	9	3	7	6	09/19/00	Stump	37	348	08/25/97
	DA	6	1	6	1	6	3	0	12/19/00	Stump et al.	175	26	05/13/99

EXAMINER <i>Richard L. Matie</i>	DATE CONSIDERED
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER							PUBL. DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	DB	9	2	1	4	0	2	7	08/20/92	PCT	E21B	7/04	N/A
	DC	9	7	2	5	5	1	9	07/17/97	PCT	E21B	47/022	N/A
	DD	9	7	3	3	0	6	5	09/12/97	PCT	E21B	7/06	N/A
	DE	9	7	4	9	8	8	9	12/31/97	PCT	E21B	7/04	N/A
	DF	0	4	6	7	6	4	2	01/22/92	EPO	E21B	4/20	N/A
	DG	0	5	9	4	4	1	8	04/27/94	EPO	E21B	44/00	N/A
	DH	0	6	8	6	7	5	2	12/13/95	EPO	E21B	7/06	N/A
	DI	0	7	1	8	6	4	1	06/26/96	EPO	E21B	47/12	N/A
	DJ	0	7	9	9	9	6	9	10/08/97	EPO	E21B	44/00	Yes
	DK	0	8	0	6	5	4	2	11/12/97	EPO	E21B	7/06	N/A

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** Place of Publication refers to name of publication in which the information being submitted was published.

SVO/tdr/387145